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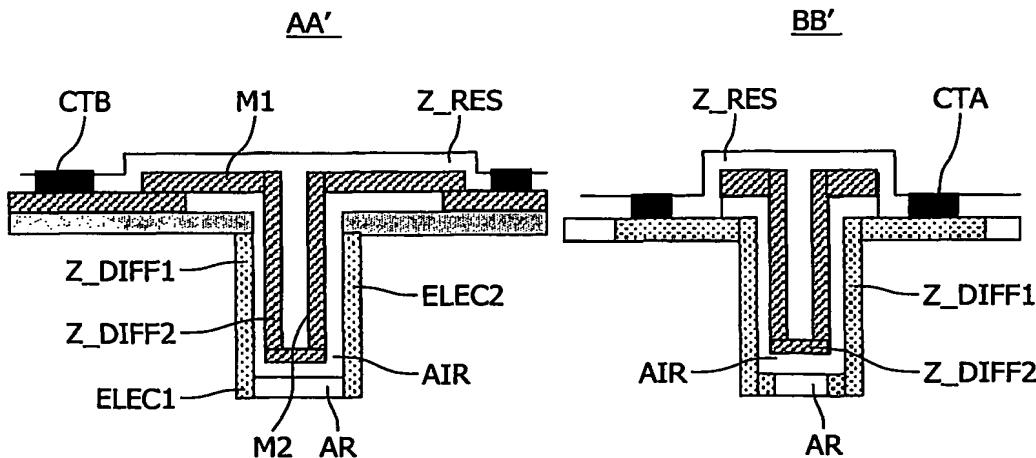
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(54) Title: SEMICONDUCTOR DEVICE WITH A RESONATOR.



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(57) Abstract: The present invention relates to a method of manufacturing a resonator within a semiconductor device, said semiconductor device comprising a substrate, wherein said method comprises the steps of: - etching a hole in the substrate, - creating a first doping zone (Z-DIFF1) for defining a first electrode, - partitioning said first electrode into two electrodes, - applying a delimited oxide deposit inside and around the hole, - defining a second doping zone (Z-DIFF2) totally covering the hole, - removing the oxide deposit in order to define an element forming the resonator able to vibrate between the two electrodes.



BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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